

**Patent** [19]

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## [54] VENTILATOR

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## [57] ABSTRACT

**PROBLEM TO BE SOLVED:** To provide a ventilator that does not increase air-conditioning load by allowing one portion of suction air due to ventilation to flow back to an indoor side by deodorization and cleaning.

**SOLUTION:** A ventilation channel to the outside of the inside 1 of a room and a reflux path returning to the inside 1 of the room are connected to the downstream of a fan 4 for sucking air from the inside 1 of the room, a damper 5 for changing the opening of each channel is arranged at the branch part of the ventilation channel and the reflux path, and further a medium- performance filter 6 for capturing the floating dust/dirt of air and a photocatalyst deodorization unit 7 for deodorizing foul air are provided at the reflux path of the downstream of the damper 5.

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